

What is claimed is:

1. A session control system comprising:

a control unit for performing a process of establishing a session between communication terminals connected to an IP network;

a receiving unit for receiving, from a first communication terminal, a session control request packet to a second communication terminal; and

a transmitting unit for transmitting a notification to said first communication terminal if an IP protocol version of said session control request packet is different from an IP protocol version usable by said second communication terminal.

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2. A session control system according to claim 1, wherein said receiving unit accepts a registration of the IPv4 and a registration of the IPv6.

20 3. A session control system according to claim 1, wherein said receiving unit receives a packet having each of registration information for an IPv4 terminal and registration information for an IPv6 terminal.

25 4. A session control system according to claim 3,

wherein the packet having said registration information is an IPv4 packet or an IPv6 packet.

5. A session control system comprising:

5 a control unit for performing a process of establishing a session between communication terminals connected to an IP network;

10 a receiving unit for receiving, from a first communication terminal, a session control request 10 packet to be transfer to a second communication terminal; and

15 a transmitting unit for transmitting, if an IP protocol version of said session control request 15 packet is different from an IP protocol version usable by said second communication terminal, a packet obtained by converting an IP header of said session control request packet to the IP protocol usable by said second communication terminal.

20 6. A communication terminal connected to a session control system via an IP network and capable of communication using the IPv4 protocol and communication using the IPv6 protocol, comprising:

25 a transmitting unit for transmitting to said session control system, by using the IPv4 or IPv6

protocol, a session control request for requesting a session control to a communication terminal to be a communication partner; and

5 a receiving unit for receiving a notification indicating that the communication protocol used for said session control request is different from a communication protocol communicable with the communication terminal to be said communication partner, wherein

10 upon receiving the notification, a session control request for requesting a session control to the partner communication terminal is transmitted again by using a communication protocol communicable with the partner communication terminal.

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7. A communication terminal according to claim 6, wherein said transmitting unit transmits registration packets to said session control system by using each of an IPv4 packet and an IPv6 packet.

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8. A communication terminal according to claim 6, wherein said transmitting unit transmits to said session control system a registration packet in which both of registration information for an IPv4 terminal and registration information for an IPv6 terminal

is described.

9. A communication terminal according to claim 8,
wherein the registration packet including said
5 registration information is either an IPv4 packet
or an IPv6 packet.

10. A communication terminal capable of
communication using a first communication protocol
10 with another communication terminal to be a
communication partner connected via an IP network,
comprising:

a receiving unit for receiving a session
establishment request transmitted from said another
15 communication terminal; and

a transmitting unit for transmitting to said
another communication terminal, if the session
requested to establish uses a communication protocol
other than the first communication protocol, a
20 notification indicating that the session should be
established by using said first communication
protocol.

11. A network system comprising an IP network, first
25 and second communication terminals each connected

to the IP network, and a session control system connected to the IP network, wherein

 said first communication terminal has a transmitting unit capable of transmitting a session control request to said second communication terminal by using each of an IPv4 packet and an IPv6 packet, and

 said session control system is comprised of:

 10. a session control unit for establishing a session between said first and second communication terminals;

 a receiving unit for receiving the session control request transmitted from said first communication terminal; and

 15. a transmitting unit for transmitting to said first communication terminal, if an IP protocol version of said session control request is different from an IP protocol version usable by the second communication terminal, a notification indicating 20 that the IP protocols are different.

12. A network system according to claim 11, wherein

 the transmitting unit of said first communication terminal transmits registration 25 packets to said session control system by using each

of an IPv4 packet an IPv6 packet, and
the receiving unit of said session control
system accepts both of the registration packets
transmitted from said first communication terminal.

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13. A network system according to claim 11, wherein
the transmitting unit of said first
communication terminal transmits to said session
control system a registration packet in which each
10 of registration information for an IPv4 terminal and
registration information for an IPv6 terminal is
described, and.

the receiving unit of said session control
system accepts the packet including said
15 registration information and transmitted from said
first communication terminal.

14. A network system according to claim 13, wherein
the packet including said registration information
20 is either an IPv4 packet or an IPv6 packet.

15. A network system comprising an IP network, first
and second communication terminals each connected
to the IP network, and a session control system
25 connected to the IP network, wherein

said first communication terminal has a transmitting unit capable of transmitting a session control request to said second communication terminal by using each of an IPv4 packet and an IPv6
5 packet and

said session control system is comprised of:
a session control unit for establishing a session between said first and second communication terminals;

10 a receiving unit for receiving a session control request packet transmitted from said first communication terminal; and

a transmitting unit for transmitting, if an IP protocol version of said session control request
15 packet is different from an IP protocol version usable by the second communication terminal, a packet obtained by converting an IP header of the session control request packet to an IP protocol usable by said second communication terminal.

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16. A server connected to a first terminal, which is capable of transmitting and receiving both of a command corresponding to a first communication protocol and a command corresponding to a second
25 communication protocol, and to a second terminal

capable of transmitting and receiving either one of a command corresponding to said first communication protocol and a command corresponding to said second communication protocol, comprising:

5 a receiving unit for receiving a command transmitted from said first terminal to said second terminal;

 a judging unit for judging whether said received command is a command communicable with said second 10 terminal; and

 a transmitting unit for transmitting, if it is judged in said judging unit that said received command is not of a protocol communicable with said second terminal, a command notifying said first 15 terminal of the result of the judgment.

17. A terminal connected to a communication partner terminal capable of transmitting and receiving either one of a command corresponding to a first 20 communication protocol and a command corresponding to a second communication protocol via a server, comprising:

 a transmitting unit capable of transmitting a command corresponding to said first communication 25 protocol and a command corresponding to said second

communication protocol; and
a receiving unit for receiving from said server,
a notification indicating that the command
transmitted from said transmitting unit is different
5 from the command communicable with said
communication partner terminal.